

CHILIBIYSKIY, D.M., inzh.

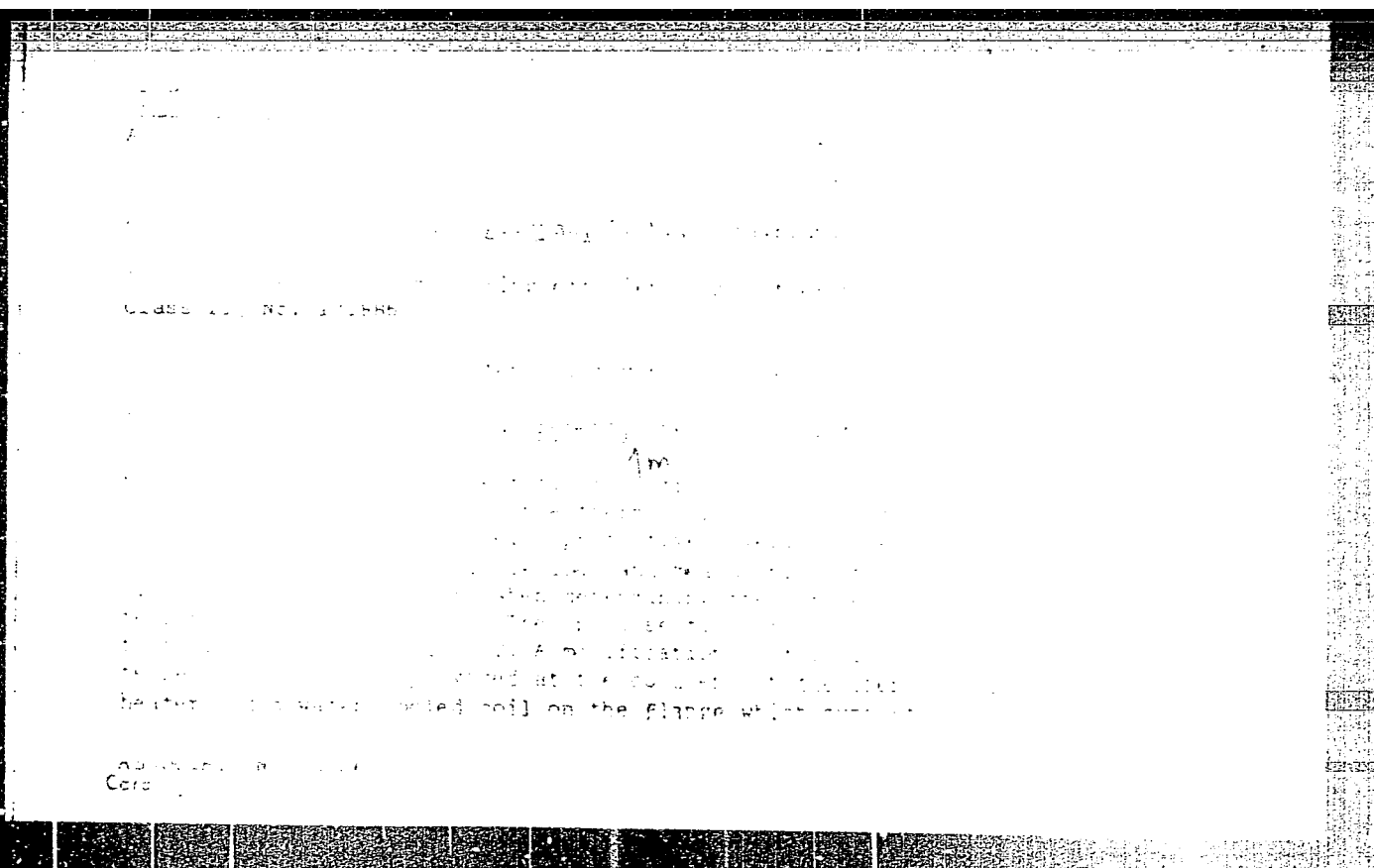
Automatic die for blanking and bending the spring cramp.
Mashinostroenie no.1:63 Ja-F '65.

(MIRA 18:4)

ZOTA, V.; STOENIESCU, Manon; OTCELEANU, D.; CHILIBE, Elena; MAVRODIN, Al.

Research on the diphenyl sulfone-hydrazide class, compounds
active against Koch's bacillus. Studia Univ B-B.S. Chem 8 no.1:
303-309 '63

1. Institute of Medicine and Pharmacy, Bucharest.



L-58881-65

ACCESSION NO.

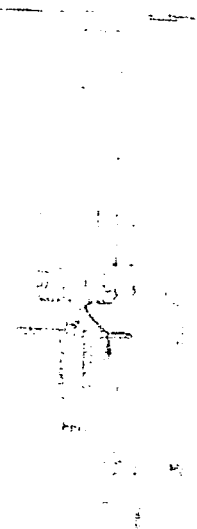


Fig. 1--vacuum chamber,
3--protective housing,
5--support flange

I 12881 46

ACCESSION NR: AP5019001

Card

SENYUSHKIN, Yu.V.; ROGOV, V.T., mashinist-instruktor; CHILIKIN, G.A.,
mashinist-instruktor

Practical recommendations on the operation of the ChS2 electric
locomotive. Elek. i tepl. tiaga 7 no.4:32-34 Ap '63. (MIRA 16:5)

1. Nachal'nik depo Moskva-Tekhnicheskaya (for Senyushkin).
(Electric locomotives--Electric equipment)

SENYUSHKIN , Yu.V.; ROGOV, V.T., mashinist-instruktor; CHILIKIN, G.A.,
mashinist-instruktor

Practical recommendations on the ChS2 electric locomotive. Elek. i
tepl.tiaga no.7:27-29 J1 '63. (MIRA 16:9)

1. Nachal'nik depo Moskva-Tekhnicheskaya (for Senyushkin).
(Electric locomotives)

SENYUSHKIN, Yu.V.; ROGOV, V.T., mashinist-instruktor; CHILIKIN, G.A.,
mashinist-instruktor

Practical recommendations on the ChS2 electric locomotive. Elek.
i tepl. tiaga 7 no.6:31-33 Je '63. (MIRA 16:9)

1. Nachal'nik depo Moskva-Tekhnicheskaya (for Senyushkin).
(Electric locomotives)

SENYUSHKIN, Yuriy Vasil'yevich; ROGOV, Vladimir Timofeyevich;
CHILIKIN, Georgiy Aleksandrovich; GORCHAKOVA, O.D., red.

[Detection and elimination of faults in ChS2 and ChS1
electric locomotives] Obnaruzhenie i ustranenie neisprav-
nostei elektrovozov ChS2 i ChS1. Moskva, Transport, 1964.
112 p. (MIRA 17:9)

CHILIKIDI, G.N.

"Investigation of the Combustion Process in a Spark-Ignition Engine." Thesis for degree of Cand. Technical Sci. Sub 3 Jul 50, Moscow Order of Lenin Aviation Inst imeni Sergo Ordzhonikidze

Summary 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernyaya Moskva, Jan-Dec 1950

FEL'DMAN, N.L., inzh.; CHILIKIN, A.M., inzh.

Reinforcing junctions and workings of large sections with arch-type pliable supports. Shakht. stroi. 7 no.4:27 Ap '63.

(MIRA 16:3)

1. Stroitel'nyy uchastok No.13 tresta Donetskshakhtostroy.

ANTONOVICH, I.I., inzh.; CHILIKIN, A.M.

Making 280.2 m of croscut per month. Shakht. stroi. 4 no.10:24-26 0
'60. (MIRA 13:11)

1. Stroitel'noye upravleniye No.13 tresta Stalinskakhtostroy.
(Donets Basin--Coal mines and mining)

FEL'DMAN, N.L., inzh.; CHILIKIN, A.M., inzh.

Efficient work organization layout for mining inclined workings
of considerable length. Shakht.stroi. 6 no.2:23-24 F '62.
(MIRA 15:2)

1. Gornoprokhodcheskoye upravleniye No.13 tresta Donetskshakhtostroy.
(Coal mines and mining)

CHILIKIN, G.A., machinist

Recommendations pertaining to the maintenance of the group-switch of the VL 23 electric locomotive. Elek.i tepl.tiaga 4
no.1:38-40 Ja '60. (MIRA 13:4)

1. Depo Moskva-Tekhnicheskaya.
(Electric locomotives--Maintenance and repair)

CHILIKIN, G.A., mashinist-instruktor

Knowledge is acquired in labor. Elekt.1 tepl. tiaga 5 no.10:6
0 '61. (MIRA 14:10)

1. Depo Moskva-Passazhirskaya-Kurskaya.
(Railroads--Employees--Education and training)

SENYUSHKIN, Yu.V.; ROGOV, V.T., mashinist-instruktor; CHILIKIN, G.A.,
mashinist-instruktor

Practical recommendations concerning the ChS2 electric locomotive.
Elek. i tepl. tiaga 7 no.9:35 S '63. (MIRA 16:10)

1. Nachal'nik depo Moskva-Tekhnicheskaya (for Senyushkin).

SENYUSHKIN, Yu.V.; ROGOV, V.T., mashinist-instruktor; CHILIKIN, G.A.,
mashinist-instruktor

Practical recommendations on the operation of the Gh32
electric locomotive. Elek. i tepl. tiaga 7 no.10:27-28
0 '63. (MIRA 16:11)

1. Nachal'nik depa Moskva-Tekhnicheskaya (for Senyushkin).

CHILIKIN, M.G., doktor tekhn.nauk, prof.; ARAKELYAN, A.K., kand.tekhn.nauk;
AFANAS'YEV, A.A., inzh.

Some features of a collectorless d.c. drive. Elektrichestvo
no.9:7-12 S '65. (MIRA 18:10)

1. Moskovskiy energeticheskoy institut i Volzhskiy filial
Moskovskogo energeticheskogo instituta.

CHILIKIN, M. G.

A general course on electric drive, Moskva, Gos. energ. izd-vo, 1951. 380 p. (51-38005)

TK153.045

CHILIKIN, M. G.

Dec 51

USSR/Electricity - Personalities

"Academician V. S. Kulebakin (His 60th Birthday)," V. A. Trapeznikov, M. P. Kostenko, B. N. Petrov, N. V. Gorokhov, V. L. Lossiyevskiy, B. S. Sotskov, M. G. Chilikin, G. N. Petrov, A. N. Larionov, A. G. Iosif'yan, K. S. Bobov, D. A. Gorodetskiy

"Elektrichestvo" No 12, p 88

Kulebakin is very well known in the fields of elec machines, elec equipment, automatic control, and illuminating engineering and has specialized for many years in aviation elec equipment. A major general in the aviation engineering service, he was one of the founders of the All-Union Elec Eng Inst and the Inst of Automatics and Telemechan and has headed chairs at the Moscow Power Eng Inst imeni Molotov and the Air Force Eng Acad imeni Zhukovskiy.

201787

GUSEV, S.A., inzh.; ZHUKHOVITSKIY, B.Ya., kand.tekhn.nauk; ZARIN, D.D.,
kand.tekhn.nauk; IVANOV-SMOLENSKIY, A.V., kand.tekhn.nauk;
KHYAZEVSKIY, B.A., kand.tekhn.nauk; KUZNETSOV, A.I., inzh.;
KOZIS, V.L., kand.tekhn.nauk; KORYTIN, A.A., inzh.; LASHKOV,
F.P., inzh.; L'VOV, Ye.L., kand.tekhn.nauk; MELESHKINA, L.P.,
kand.tekhn.nauk; NEKRASOVA, N.M., kand.tekhn.nauk; NIKULIN,
N.V., kand.tekhn.nauk; POLEVOY, V.A., kand.tekhnicheskikh
nauk; RAZEYIG, D.V., kand.tekhn.nauk; ROZANOV, G.M., kand.tekhn.
nauk; RUMSHISKIY, L.Z., kand.fiz.-matem.nauk; SVISTOV, N.K.,
kand.tekhn.nauk; SIROTINSKIY, Ye.L., kand.tekhn.nauk; SOKOLOV,
M.M., kand.tekhn.nauk; TALITSKIY, A.V., prof.; TREMBACH, V.V.,
inzh.; FEDOROV, A.A., kand.tekhn.nauk; GRUDINSKIY, P.G., prof.;
PRYTKOV, V.T., kand.tekhn.nauk; CHILIKIN, M.G., prof., glavnyy
red.; GOLOVAN, A.T., prof., red.; PETROV, G.N., prof., red.;
FEDOSEYEV, A.M., prof., red.; ANTIK, I.V., red.; SKVORTSOV, I.M.,
tekhn.red.

[Handbook for electric engineering] Elektrotekhnicheskii spravoch-
nik. Moskva, Gos.energ.izd-vo, 1952. 640 p. (MIRA 13:2)

1. Prepodavateli Moskovskogo energeticheskogo instituta imeni V.M.
Molotova (for all except Antik, Skvortsov).
(Electric engineering)

CHILIKIN, M. G.

USSR/Electricity - Personalities

Jan 52

"Professor A. A. Glazunov (His 60th Birthday and 30 Years of Scientific, Pedagogical, and Engineering Activity)," M. G. Chilikin, A. S. Sukomel, I. I. Solov'yev et al.

"Elektrichestvo" No 1, p 91

Glazunov is one of the senior instructors in the Moscow Power Eng Inst imeni Molotov, where he was dean of the Elec Power Eng Faculty from 1935 to 1947 and head of the Electric Power Stations Chair from 1938 to 1950. The five books he has written deal mainly with transmission lines and elec power systems.

201T15

CHILIKIN, M.G., professor.

[General course on electric drive] Obshchii kurs elektroprivoda. Izd. 2.,
dop. 1 perer. Moskva, Gos. energ. izd-vo, 1953. 463 p. (MLR 7:1)
(Electric driving)

CHILIKIN, M.G.; KORYTIN, A.M.

Mechanical characteristics of electro-hydraulic drives. Elektrichestvo '53,
No.4, 47-55. (MIRA 6:4)
(EBA 56 no.672:4952 '53)

Outlines procedure for plotting mech. characteristics of elec drive with hydraulic pump-and-motor transmission (elec hydraulic drive). Cites eqs for mech characteristics, facilitating comparison of elec and elec-hydraulic types of drive. Shows way to set up equivalent circuit of elec-hydraulic drive. This article covers part of a work completed by the authors under an agreement on cooperation between MEI and the ZIS automobile plant. Submitted 19 Nov 52. 258T28

CHILIKIN, M.G. [author]; PETROV, I.I., dotsent, kandidat tekhnicheskikh nauk [reviewer].

"General course on electric drives." M.G.Chilikin. Reviewed by I.I.Petrov.
Elektrichestvo no.11:92-93 N '53. (MLRA 6:10)
(Electric driving)

CHILIKIN, M.G., professor (Moscow); KORYTIN, A.M., kandidat tekhnicheskikh nauk
(Moscow);

Some problems of the dynamics of electro-hydraulic drives. Elektrichestvo
no.12:40-43 D '53. (NIRA 6:11)

(Electric driving)

CHILIKIN, M.G., professor

Karl Adol'fovich Krug. Trudy MBI no.14:5-6 '53. (MIRA 8:7)

1. Direktor Moskovskogo energeticheskogo instituta imeni V.M. Molotova. (Krug, Karl Adol'fovich, 1873-1952)

CHILIKIN, M.G.

CHILIKIN, M.G. --"General Course in Electric Drive." Dr Tech Sci, Moscow
Order of Lenin Power Engineering Inst imeni V.M. Molotov, 22 Jan 54. (Verchnyaya
Moskva 12 Jan 54)

SO: Sum 168, 22 July 1954

CHILIKIN, M.G.; KIRILLIN, V.A.; POLIVANOV, K.M.; FABRIKANT, V.A.;
~~CHILIKIN, M.G.~~ NIKOLAI, R.A.; KAGANOV, I.L.; IVANOV, A.P.; ZHDANOV, G.M.

Professor V.V.Meshkov. Fiftieth birthday and 25 years of
scientific and teaching activity. Elektrichestvo no.1:93

Ja '54.

(MLRA 7:2)

(Meshkov, Vladimir Vasil'evich, 1904-)

CHILIKIN, M.G.; GLAZUNOV, A.A.; STEPANOV, V.N.; TELESHEV, B.A.; GRUDINSKIY,
P.G.; VENIKOV, V.A.; MEL'NIKOV, N.A.; ROGALI-LEVITSKIY, M.V.; GLAZUNOV,
A.A.; SOLDATKINA, L.A.; ZHUKOV, L.A., ANISIMOVA, N.D.

A.IA.Riabkov. Obituary. Elektrichestvo no.3:92 Mr '54. (MLRA 7:4)
(Riabkov, Aleksandr Iakovlevich, 1890-1954)

4684. Energy relations of electro-hydraulic drives.
M. G. GILIN and A. M. KOBILIN. *Elektronika*,
1979, No. 1, p. 1-2. In Russian.

Systems of regulation based on water volume of the pump element of the drive, similar in their response characteristics to pneumatic systems, are analyzed. The energy relations of drives the speed of whose hydraulic motor is regulated by a throttle are qualitatively analogous to completely electric drives with rheostatic speed control. For constant load, the relation between motor speed and efficiency is linear. An electric drive is economically more favourable than an electro-hydraulic drive with throttle-regulated speed because of the much higher efficiency of the former. On the other hand, for the regulated speed of the motor, the energy required by the latter is less than that required by the former.

rotary, plunger-type motors and are advantageous in cases where small speeds and large forces are required.

The formulae given enable the efficiencies of electro-hydraulic drives to be calculated. The energy required in practice is compared with that required in more or less ideal systems of purely electric drives.

CHILIKIN, M. G.

AID P - 626

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 30/35

Authors : Nekrasov, A. N., Syromyatnikov, I. A., ~~Chilikin, M. G.~~,
Solov'yev, I. I., Glazunov, A. A., ~~Sirovinskiy, L. I.~~,
Ivanishchenko, F. D., Venikov, V. A., Chetverichenko, A. N.
and others.

Title : Professor A. M. Fedoseyev. On His 50th Birthday and
25 years of Scientific, Educational and Engineering
Activity. (Current News)

Periodical : Elektrichestvo, 8, 89, Ag 1954

Abstract : A short biographical sketch and a description of
scientific activity is given.

Institution : Not given

Submitted : No date

CHILIKIN, M.G.; GLAZUNOV, A.A.; STEPANOV, V.N.; TELESHEV, B.A.;
GRUDINSKIY, P.G.; VENIKOV, V.A.; MEL'NIKOV, N.A.;
ROGALI-LEVITSKIY, M.V.; ROZANOV, G.M.; GLAZUNOV, G.M.;
SOLDATKINA, L.A.; ZHUKOV, L.A.; ANISIMOVA, N.D.

Aleksandr Iakovlevich Riabkov; obituary. Elek.sta. 25 no.2:
59 F '54. (MLRA 7:2)
(Riabkov, Aleksandr Iakovlevich, 1890-1954)

CHILIKIN, Mikhail Grigor'yevich; KORYTIN, Aleksandr Mikhaylovich;
PROKOP'YEV, Vladimir Nikolayevich; SAPANOVA, A.L., redaktor;
LARIOMOV, G.Ye., tekhnicheskiy redaktor.

[Electric and hydraulic power drive] Silovoi elektrogidro-
privod. Moskva, Gos. energ.isd-vo, 1955. 213 p.(MLRA 8:10)
(Machine tools--Electric driving)
(Machine tools--Hydraulic driving)

CHILIKIN M. G.

GOLOVAN, A.T., professor, redaktor; GRUDINSKIY, P.G., professor, redaktor;
PETROV, G.N., professor, redaktor; FEDOSEYEV, A.M., professor, redaktor;
CHILIKIN, M.G., professor, redaktor; ANTIK, I.V., inzhener, redaktor;
SKVORTSOV, I.M., tekhnicheskiy redaktor

[Electric engineering handbook] Elektrotekhnicheskiy spravochnik. Izd.
2-oe, perer. Pod obshchei red. V.M. Molotova, 1 dr. Moskva, Gos. energ.
Vol. 1. 1955. 527 p. Vol. 2. 1955. 624 p. (MIRA 9:1)

1. Moskovskiy energeticheskiy institut imeni V.M. Molotova (for all
except Skvortsov)

(Electric engineering--Handbooks, manuals, etc.)

AID P - 1482

Subject : USSR/Electricity

Card 1/2 Pub. 27 - 33/36

Authors : M. G. Chilikin, A. T. Golovan, D. P. Morozov, A. S. Sandler,
M. M. Sokolov, V. I. Yakovlev

Title : Book review: I. V. Kharizomenov: Electrical Equipment
of Metal-Cutting Lathes: approved by the Ministry of
Higher Education of the USSR as a textbook for machine-
building Institutes of Higher Education. Mashgiz, 1952,
pp.309

Periodical: Elektrichestvo, 2, 85-86, F 1955

Abstract : The authors present the advantages and the defects of the
book as they were discussed at the meeting of the Chair
of Electrical Equipment of Industrial Enterprises of the
Moscow Power Engineering Institute im. Molotov.
Summarizing the discussion, the reviewers conclude that
the book cannot be considered as satisfying the requirements
for use as a textbook.

AID P - 1482

Elektrichestvo, 2, 85-86, F 1955

Card 2/2 Pub. 27 - 33/36

Institution: None

Submitted : No date

CHILIKIN, M. G.

AID P - 2838

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 27/30

Authors : M. G. Chilikin and eight other co-authors

Title : ~~Professor Ye. V. Nitsov~~ Professor Ye. V. Nitsov. His 60th birthday and 35 years of scientific and educational activity (Current events)

Periodical : Elektrichestvo, 6, 85, Je 1955

Abstract : The authors briefly describe the activities of Ye. V. Nitsov, Professor of Electrical Machinery at the Moscow Power Engineering Institute im. Molotov. One photograph.

Institution : None

Submitted : No date

CHILIKIN, M.G.

AID P - 3020

Subject : USSR/Electricity

Card 1/2 Pub. 27 - 7/33

Authors : Chilikin, M. G., Dr. of Tech. Sci., Prof., Golovan,
A. T., Dr. of Tech. Sci., Prof., and Petrov, I. I.,
Kand. of Tech. Sci., Dotsent

Title : Scientific and technical problems of the electric
drive

Periodical : Elektrichestvo, 7, 29-36, J1 1955

Abstract : The authors present a historical review of the
development of the electric drive in Tsarist Russia
and in the Soviet Union. In the second part of the
article, they present the basic scientific and
technical problems of the modern automatized drive.
Among these problems are: frequency control of an
a-c drive obtained through static and rotating
frequency changers; further improvement of d-c
drives, based on the use of closed circuits and
feedbacks and use of various types of amplifiers;

Elektrichestvo, 7, 29-36, J1 1955

Card 2/2 Pub. 27 - 7/33

AID P - 3020

introduction of regulated mercury rectifiers instead of d-c generators in the systems motor-generator; creation of reverse-advancing and vibrating movement drives; further development of automatic control of electric drives; use of contactless equipment and semi-conducting instruments, etc.

Institution : Moscow Power Engineering Institute im. Molotov, and
All-Union Power Engineering Correspondence Institute.

Submitted : Ap 25, 1955

Chilikin, M. G.

Subject : USSR/Electricity AID P - 4090
Card 1/1 Pub. 27 - 1/24
Author : Chilikin, M. G., Doc. Tech. Sci., Prof.
Title : Moscow Power Engineering Institute im. Molotov. Fifty
years of the Institute (1905-1955)
Periodical : Elektrichestvo, 11, 2-8, N 1955
Abstract : The author presents a historical sketch of the fifty
years of educational, scientific and research activity
of the Institute, and emphasizes its role in the
development of power engineering in the USSR. Three
photographs.
Institution : None
Submitted : Ag 4, 1955

CHILIKIN, M. A. doktor tekhnicheskikh nauk, professor; KORYTIN, A.M.,
kandidat tekhnicheskikh nauk.

Equivalent circuits of electrohydraulic drives. Elektrichestvo
no.9:43-48 S '56. (MIRA 9:11)

1. Moskovskiy energeticheskiy institut imeni Molotova. (for
Chilikin).
2. Odeskakiy politekhnicheskii institut (for Korytin).
(Electric driving) (Hydraulic transmission)

L. M. Konstantinovich Minov

CHILIKIN, M.G.; MESHKOV, V.V.; YEFREMOV, I.S.; GOLOVAN, A.T.; SVENCHANSKIY, A.D.

Professor D. K. Monov; on his 60th birthday and 35th anniversary in scientific, pedagogical, and engineering activity. Elektrichestvo no.3:95 Mr '57. (MIRA 10:4)
(Minov, Dmitrii Konstantinovich, 1896-)

Chilikin, M. G.

AUTHORS: Petrov, G.N. and Chilikin, M.G., Professors 3-9-29/31

TITLE: When Will the Higher School Obtain a New Standard Code of Regulations? (Kogda zhe vysshaya shkola poluchit novyy tipovyy ustav?)

PERIODICAL: Vestnik Vysshey Shkoly, 1957, # 9, pp 90 - 91 (USSR)

ABSTRACT: The existing standard code of Regulations for Higher Schools originates from 1938. Projects for a new code were announced two years ago but the authors state, no new code has yet been established. This creates a strange situation, as the old code is still in force but a number of regulations is no longer applicable.

The authors consider that this document must reflect all sides of higher school life. At the same time it has to be very compact and typical. It is not necessary to regulate strictly the periods of training vacation periods, and the number of examinations; this may differ in various vuzes.

The authors suggest that the Dean be elected for a three year period; the vuz council should be confirmed every three years and should be formed of members of the vuz, the party, the syndicate and the komsomol. The authors do not think it necessary that the students take part in the elections.

Card 1/2

3-9-29/31

When Will the Higher School Obtain a New Standard Code of Regulations?

The authors reject the idea of a special administrative vuz presidium. Regular sessions of Deans and vuz Directors are suggested. One Deputy is proposed if the number of students is 500; two for 500 - 1,000 students; three for 1,000 - 1,500 students.

ASSOCIATION: The Moskva Institute of Energetics (Moskovskiy energeticheskiy institut)

AVAILABLE: Library of Congress

Card 2/2

CHILIKIN, M.G., prof., red.; ZUSMAN, kand. tekhn nauk, red.; YEZHKOW, V.V.,
red.; LARIONOV, G.Ye., tekhn. red.

[Machine tool electric equipment. Pt.1. Electric machines and apparatus
for machine tools] Elektrooborudovanie metalloreshushchikh stankov.
Moskva, Gos. energ. izd-vo. Pt.1. Elektricheskie mashiny i apparaty
dlya metalloreshushchikh stankov. 1958. 87 p. (MIRA 11:7)
(Machine tools)

CHILIKIN, M.G., prof.; ZUSMAN, V.G., kand.tekhn.nauk; YEZHKEV, V.V., red.;
BORJUNOV, N.I., tekhn.red.

[Electric equipment for metal-cutting machines] Elektrooborudovanie metalloreshushchikh stankov. Pt.2. [Controlled electric drive] Reguliruemyi elektroprivod. Moskva, Gos. energ. izd-vo. 1958. 175 p. (MIRA 12:1)
(Machine tools--Electric driving)

CHILIKIN, M.G., prof., red.; ZUSMAN, V.G., kand.tekhn.nauk, red.;
YEZHKOVA, V.V., red.; BORUNOV, N.I., tekhn.red.

[Electric equipment of metal cutting machines] Elektrooborudovanie metallorazreshchikh stankov. Part 3 [Automatic control of machines] Elektroavtomatika stankov. Moskva, Gos. energ. izd-vo. 1958. 236 p. (MIRA 12:2)
(Machine tools) (Automatic control)

CHILIKIN, M.G.

MOLOZOV, D.P., doktor tekhn. nauk, prof.; CHILIKIN, M.G., doktor tekhn. nauk,
prof.; LYSSENKO, N.G., inzh.; TVERDIN, L.M., kand. tekhn. nauk.

New circuit for high-speed pulse regulation in systems with electronic
converters. Elektrichestvo no.2:22-27 F '58. (MIRA 11:2)

1. Moskovskiy energeticheskiy institut.
(Automatic control) (Electric current converters)

SOV-3-58-9-2/36

AUTHOR: Chilikin, M.G., Professor, Doctor of Technical Sciences,
Director of the Moscow Power Engineering Institute

TITLE: Modern Industry Needs Innovator-Engineers (Sovremennoy promy-
shlennosti - inzhenera-novatora)

PERIODICAL: Vestnik vysshey shkoly, 1958, Nr 9, pp 5-11 (USSR)

ABSTRACT: There are many examples proving the close connection between
the USSR national economy and the development of science and
engineering. The speed of development of Soviet power engineer-
ing may serve as an example. The production of electrical energy
during the post-war period has increased almost 5 times and
in 1957 amounted to 209.5 billion kwh. It is planned to raise
yearly output to 800 - 900 billion kwh within the next 10 -
15 years. Hydroelectric power plants requiring considerable
capital investment and transmitting energy over long distances
must now compete with the cheap energy of atomic stations
which can be located closer to the consumer. For the solu-
tion of the latest technical problems, it is of primary im-
portance to train scientific and technical workers capable
of solving theoretical problems and of realizing ideas in
the form of new apparatuses and machines. The number of

Card 1/4

Modern Industry Needs Innovator- Engineers

SOV-3-58-9-2/36

training specialists in the Soviet Union is satisfactory. But more attention must be paid to improve training methods. Speaking of power engineering, the author points out how the requirements in engineering personnel have changed. **The existing curricula cannot meet the increased demand for adequately trained specialists.** The author turns then to automation. The USSR already has many automatic lines and workshops. The next task is completely automated plants. At such enterprises work can be performed and supervised only by engineers trained on a broad and modern scientific-technical basis. The author outlines the professional features of engineers graduating from technical vuzes including the Moscow Power Engineering Institute. The author regards the lack of liaison with production shortcomings of the USSR educational system. This deficiency cannot be overcome by only increasing the number of correspondence courses and evening vuzes whose students are plant workers. An appropriate method of practical training must also be found for the regular technical vuzes, such as the organization of plant-vtuzes. One method is now being worked out by the Moscow Power Engineering Institute. The regular vuzes must consist of a basic, day-time department and a correspondence

Card 2/4

SOV-3-58-9-2/36

Modern Industry Needs Innovator-Engineers

and evening department. Admittance to the junior courses will take place by competition and these courses will be taught only by the correspondence-evening department. All students lacking practical experience will be obliged to go to work 3 months after their enrollment. The first 2 years all the students will be trained at the correspondence and evening department (without discontinuing work). The training program for the first 2 courses will approximately correspond to the first course program of the present regular day-time departments. The term of study will be increased from 7 to 7.5 years. This system of education, enabling the students to engage in practical work and obtain their first qualification, will lead to a general rise in the quality of engineer training. The author goes on to deal with complaints of the students' insufficient knowledge in physics and mathematics, referring in this connection to statements of Professor B.N. Finkelshteyn [Finkelstein] and Academician A.F. Ioffe. In chemical training, technical vuzes must introduce much that is new as the knowledge of vtuz graduates in this field can by no means be regarded as satisfactory. The scientific and pedagogical qualification of vtuz instructors has risen considerably over the past decade. The Ministry's instructive "Letter I-100"

Card 3/4

'Modern Industry Needs Innovator-Engineers

SOV-3-58-9-2/36

was of great help to the vuzes.
There are 3 Soviet references.

ASSOCIATION: Moskovskiy energeticheskiy institut (Moscow Power Engineering Institute)

Card 4/4

TOLOKONNIKOV, Leonid Stepanovich; KATSEVICH, Leonid Savvich; ~~NEKRASOVA~~,
Nina Mikhaylovna; IVANOV, Yevgeniy Petrovich; ~~CHILIKIN, M.G.~~
glavnyy red.; SVENCHANSKIY, A.D., red.; SAPAROVA, A.L., red.;
~~BORUNOV, N.I.~~, tekhn.red.

[Atlas of electromechanical industrial installations] Atlas
elektromekhanicheskikh promyshlennykh ustanovok. Moskva, Gos.
energizd-vo. Part 2. [Electric furnaces] Elektricheskie
pechi. Glav.red. M.G.Chilikin. Red. A.D.Svenchanskii i I.S.
Tolokonnikov. 1959. 7 p., 107 diagrs. (MIRA 12:8)
(Electric furnaces)

CHILIKIN, M.G.

SOV/122-59-6-20/27

AUTHOR: None given

TITLE: Third All-Union Conference on Automation

PERIODICAL: Vestnik mashinostroyeniya, 1959, Nr 6, pp 71-73 (USSR)

ABSTRACT: The third national conference on the automation of production processes in mechanical engineering and automatically controlled electric drives in industry, held in Moscow from May 12-16, 1959, is reported. Over 1 100 delegates from more than 66 towns of the USSR took part in the conference. 805 people assisted in the sessions dealing with the development of automation in mechanical engineering. The conference was opened by A.A. Blagonravov, Academician, Academic Secretary of the Section of Engineering Sciences of the USSR Academy of Sciences. Academician I.P. Bardin, Vice-president of the Ac.Sc.USSR, noted in his introductory speech the importance of the development of automation and dealt with the basic conditions determining successful automation of production processes. Academician V.I. Dikushin presented a paper entitled "Problems of Automatic Control in Mechanical Engineering" in which he stated that mechanical engineering had the task of providing all branches of the national economy with improved machines.

Card1/9

SOV/122-59-6-20/27

Third All-Union Conference on Automation

He emphasised the need for resolutely replacing obsolete with modern machines. In order to increase the production of machines and improve their quality, it was necessary to carry out the overall automation of processes in all production stages. Dikushin indicated the concrete trends in the development of automatic control and dwelt on the problems of the development of drive and control in their interaction with production machines. Chilikin, M.G., Doctor of Technical Sciences, in his paper entitled "Present-day Problems of the Automatic Electric Drive" quoted the following figures on the relationship between power available per worker and productivity of labour. Taking 1928 in Soviet industry as the reference year, the power available per worker rose to 335, 490 and 685% in 1940, 1950 and 1955, respectively. In the same years, productivities were 341, 266 and 627%. Thus, questions associated with the improvement of the electrical drive assume great importance. Alongside the primary purpose of the electrical drive - to convert electrical into mechanical energy (rotating shaft power), research must be

Card2/9

Third All-Union Conference on Automation ^{SOV/122-59-6-20/27}

directed towards the creation of industrial electrical drives with translational, pulsating and other motions changing according to any law. In a paper entitled "The Reliability and Accuracy of Automatic Production" Academician N.G. Bruyevich established the relationship between the reliability of machine tools and the accuracy of components made on them. He pointed out the case without physical standstill of the machine, when it begins to produce inaccurately. The serviceability of the machine has been disrupted though it is still formally working. To increase the reliability of machines, the possible decrease in their accuracy must be taken into account already in design. The reliability of the components must be ensured and statistical information collected on the reliability of machines in different conditions. Academician S.G. Strumilin in a paper entitled "On the Economics of Automation in Mechanical Engineering" gave a historical analysis of the development of the automation of production processes and defined the social and economic differences in its effect under the conditions of capitalist and socialist societies. N.I. Borisenko, in a

Card 3/9

SOV/122-59-6-20/27

Third All-Union Conference on Automation

paper entitled "Production of Electrical Equipment, Instruments and Electrical Automatic Control Gear" acquainted the audience with the increase in the production in these fields planned for the period 1958-1965. In his paper entitled "On the Scientific Foundations of Overall Automation", Doctor of Technical Sciences V.V. Solodovnikov, denoting the successive stages of automation, defined overall automation as the most general and highest form, in which not only the function of processing the control signals but also the function of evaluating them devolves upon the means of automatic control (i.e. the task of the control of a process which is automated throughout, should be solved by the means of computer engineering). The main difficulty in the fulfilment of this task is the complexity of obtaining a mathematical description of the production process. Another difficulty is the compiling of equations which will provide the link between economics and engineering. The speaker cited variants of the possible mathematical solution of the task

Card4/9

SOV/122-59-6-20/27

Third All-Union Conference on Automation

of automatic control of processes which are automated throughout. At the Section for the Automation of Foundry Production Processes, papers were presented which reflected the development of the theory of foundry processes, the overall automation in the foundries and the development of new processes. At the Section for Automation of Press and Forging Processes, a paper was read on the prospects of the specialisation of the production of forgings in the USSR; several papers dealt with new automatic equipment, with the development of continuous processes of making forgings by overall automation on the basis of press working processes and the conditions for combining the processes of heat treatment and press working. At the Section for the Automation of Welding Processes, papers were presented dealing with new welding methods, welding metals by means of ultrasonics and the processes of cold welding. Several papers dealt with the experience in the automation of different branches of mechanical engineering and reported on new automatic control equipment. At the Section for the Automation of the Heat Treatment Processes, papers were presented on the theory of heat treatment

Card5/9

SOV/122-59-6-20/27

Third All-Union Conference on Automation

processes, on experience in the automation of heat treatment processes and methods of controlling them. At the Section for the Automation of Machining Processes, 23 papers were presented, which dealt with the development of automation in batch production of machines and with the standardisation linked with it; with the theory of processes, the measures for expanding production of automation equipment, new automatic devices and new model designs for pilot automatic factories. The Section on Automation of Assembly Processes had been established for the first time and, for this reason, the interest displayed in the work of this section was not fully satisfied. The papers and reports were, in the main, restricted to outlines of the experience of individual factories. In the Section on the Automation of Inspection Operations, over 20 papers were presented. They dealt with the theory of and new forms of equipment for the automation of inspection operations, descriptions of new methods of automating inspection operations. Several papers quoted experience in automation.

Card6/9

SOV/122-59-6-20/27

Third All-Union Conference on Automation

At the Section on Drives and Controls of Engineering Production Machines, theoretical papers were presented on the principles of the design of systems with maximising regulating properties, on the standardisation of signals in information circuits, etc., as well as papers on new equipment and methods for controlling machine tools, on the electrical and hydraulic drives in mechanical engineering, on new systems in pneumatic control devices, and on several problems relating to mechanical transmissions. At the final full session a statement on the tasks of the State Committee on Automation and Mechanical Engineering was made by USSR Minister A.I. Kostousov, Chairman of this committee, who defined the importance of automation and its social significance. The principal task - increasing labour productivity - is being fulfilled by pursuing a specific policy in the design of machines and raising the technical level of production processes. The State Committee for Automation and Mechanical Engineering has been set up for the purpose of co-ordinating and organising the work of automation and for accelerating the development of mechanical engineering. An extremely

Card7/9

SOV/122-59-6-20/27

Third All-Union Conference on Automation

mixed stock of manufacturing machines is in service today. Newly produced machines are also extremely varied. Altogether over 125 000 different types of machines, instruments, apparatus, etc, are being produced in the USSR. The primary task of the reconstituted State Committee is the creation of a range of machines with as small a number of types as possible, and most appropriate to the scale and conditions of socialist production. All machines must be so designed that they could be built into automatic production lines. Problems of machine design, the speaker stressed, must be solved with an eye to overall applicability for all branches of mechanical engineering. Kostousov then dealt with questions relating to the general application and utilisation of industrial experience in automation. A.Ye. Vyatkin, Chairman of the Committee on Standards, Measures and Measuring Instruments under the Council of Ministers of the USSR, told the conference about steps taken in the field of standardising components in mechanical engineering.

Card8/9

Third All-Union Conference on Automation ^{SOV/122-59-6-20/27}

Yu. Ye. Maksarev, Chairman of the State Scientific Research Committee of the Council of Ministers of the USSR, noted that the work of the conference and its sections will assist the automation of production processes in mechanical engineering.

Card 9/9

CHIL, KIN, M.G.
8(5), 28(1)

SOV/105-59-8-25/28

AUTHOR:

Sud, I. I., Engineer

TITLE:

Third All-Union Joint Conference on the Automation of Production Processes in the Machine-building Industry and on Automated Electric Drives in Industries

PERIODICAL:

Elektrichestvo, 1959, Nr 8, pp 87 - 90 (USSR)

ABSTRACT:

This conference was convened in Moscow from May 12-16, 1959 by the AN SSSR (AS USSR), Gosplan SSSR (Gosplan USSR), GNTK SSSR (GNTK USSR), Gosudarstvennyy komitet po avtomatizatsii i mashinostroyeniyu (State Committee for Automation and Machine Construction), and the Natsional'nyy komitet SSSR po avtomaticheskomu upravleniyu (National Committee of the USSR for Automatic Control). The conference was prepared by the Komissiya po tekhnologii mashinostroyeniya instituta mashinovedeniya AN SSSR (Commission for Machine Construction Technology of the Institute of Machine Science of the AS USSR), Nauchno-tekhnicheskiiy komitet po avtomatizatsii proizvodstvennykh protsessov v mashinostroyenii (Scientific and Technical Committee for the Automation of Production Processes in Machine Construction), IAT

Card 1/10

Third All-Union Joint Conference on the Automation of Production Processes in the Machine-building Industry and on Automated Electric Drives in Industries SOV/105-59-8-25/28

AN SSSR (IAT AS USSR), MEI, NII EP and Nauchno-tekhnicheskii komitet po avtomatizirovannomu elektroprivodu (Scientific and Technical Committee for Automatized Electric Drives). The conference was attended by about 1500 persons: staff members of scientific research institutes and ~~vuzes,~~ technical personnel of petroleum enterprises, coal mines, and metallurgical plants in Moscow, Leningrad, Kiev, Baku, Khar'kov, Sverdlovsk, and other industrial centers.

The opening address at the plenary meeting was delivered by the Vice-President of the AS USSR, Academician I. P. Bardin. Academician V. I. Dikushin spoke about problems of automation in the machine-building industry. M. G. Chilikin, Doctor of Technical Sciences, and I. I. Petrov, Doctor of Technical Sciences, spoke about current problems of automatized electric drives. Academician N. G. Eruyevich spoke about problems of the reliability and accuracy in automatic production. Academician S. G. Strumilin reported on the economic aspects of automation. Engineer N. N. Borisenko reported on the production of electrical equipment,

Card 2/ 10

Third All-Union Joint Conference on the Automation of Production Processes in the Machine-building Industry and on Automated Electric Drives in Industries

SOV/105-59-8-25/28

apparatus, and means of electric automation in the current 7 years. V. V. Solodovnikov, Doctor of Technical Sciences, spoke about the scientific fundamentals of comprehensive automation. In the section for general problems of electric drives, Academician V. S. Kulebakin spoke on problems of the application of the invariant principle in automatic electric drive systems. I. A. Syromyatnikov, Member of the GNTK SSSR (GNTK USSR), Doctor of Technical Sciences, spoke about problems of the economy in planning power engineering projects and about the reliability of electrical equipment. S. I. Artobolevskiy, Doctor of Technical Sciences, presented a classification of control mechanisms and -drives according to the motion of the final control element, the character of the variation of the amplification ratio, and other factors determining the design of the working machine. Ye. L. Ettinger, Candidate of Technical Sciences, held a lecture on the present-day stage and the prospects in the development of electric drives with electronic valves. B. M. Kagan,

Card 3/10

Third All-Union Joint Conference on the Automation of Production Processes in the Machine-building Industry and on Automated Electric Drives in Industries SOV/105-59-8-25/28

Candidate of Technical Sciences, reported on methods of solving electromechanical problems by means of automatic digital computers. Engineer Yu. V. Mordvinov spoke about the automation of the calculation of optimum design factors of electromotors by means of electronic computers. I. R. Freydzon, Candidate of Technical Sciences, spoke about the application of electronic computers with continuous operation for the simulation of a motor-generator drive system. Engineer Yu. R. Reyngol'd presented a simple method of compiling the transmission functions and the design factors of a motor-generator system, of its individual elements and of composite groups, taking the predominant internal feedbacks into account. V. A. Shubenko, Candidate of Technical Sciences, and Engineer Yu. P. Agafonov spoke about the investigation of electromagnetic transients in induction motors and of their influence upon the stable performance of induction-motor drives. S. F. Drobyazko, Candidate of Technical Sciences, Ya. B. Kadymov, Candidate of Technical Sciences, L. A. Radchenko, Candidate of Technical Sciences,

Card 4/10

Third All-Union Joint Conference on the Automation
of Production Processes in the Machine-building Industry and on Automated
Electric Drives in Industries

SOV/105-59-8-25/28

Engineer A. V. Baltrushevich, Engineer G. V. Suvorov, and Engineer B. M. Shraybman in their lectures dealt with the investigation of transients in electric drives. D. V. Koz'minykh, Candidate of Technical Sciences, Engineer P. A. Suyskiy, and Engineer V. V. Shevchenko presented methods of determining the thermal lay-out of electric drives. A. V. Basharin, Doctor of Technical Sciences, demonstrated a graphical method of synthesizing automatic control systems of electric drives. A. A. Larionov, Corresponding Member, AS USSR, Engineer O. A. Kossov, and Engineer A. Kh. Khasayev dealt with the performance of automatized electric drives with increased and high frequency. The lectures by O. V. Slezhanovskiy, Candidate of Technical Sciences, S. Z. Barskiy, Candidate of Technical Sciences, L. M. Tverdin, Candidate of Technical Sciences, Engineer D. A. Alenchikov, Engineer O. N. Mel'nikov, and Engineer I. M. Shteyn were concerned with problems and methods of controlling electric drives. In the section for automatic

Card 5/10

Third All-Union Joint Conference on the Automation of Production Processes in the Machine-building Industry and on Automated Electric Drives in Industries SOV/105-59-8-25/28

electric drives in metallurgy the following lectures were held: Engineer N. A. Tishchenko spoke about problems in the field of automatic electric drives in metallurgy. D. P. Morozov, Doctor of Technical Sciences, N. P. Kunitskiy, Candidate of Technical Sciences, and Engineer M. Ya. Pistrak reported on the control of rolling-mill drives with thermionic valves. A. B. Chelyustkin, Candidate of Technical Sciences, Engineer E. Yu. Gutnikov, Engineer B. Z. Zil'derman, Engineer A. M. Ladyzhenskiy, Engineer G. M. Levin, Engineer L. P. Smol'nikov, and Engineer Z. B. Vartanov spoke about the use of program selectors and computers for the electric drives in metallurgical works. V. D. Afanas'yev, Candidate of Technical Sciences, O. V. Slezhanovskiy, Candidate of Technical Sciences, N. N. Druzhinin, Candidate of Technical Sciences, F. F. Olefir, Candidate of Technical Sciences, and Engineer V. I. Arkhangel'skiy spoke about various problems concerning the theory of the main drive of rolling mills. In the section for automatized electric drives the following lectures were held: Engineer G. A. Popov and Engineer L. V. Maziya reported on the drive of the propeller of the atomic

Card 6/10

Third All-Union Joint Conference on the Automation of Production Processes in the Machine-building Industry and on Automated Electric Drives in Industries SOV/105-59-8-25/28

icebreaker "Lenin", as well as on an investigation of this drive by means of a computer with continuous action. M. M. Sokolov, Candidate of Technical Sciences, determined the range of applicability of an induction drive motor with saturable reactors and investigated the drawbacks and advantages of the individual hookups of the reactor control. S. V. Strakhov, Doctor of Technical Sciences, Ya. B. Kadymov, Candidate of Technical Sciences, I. I. Gyul'mamedov, Candidate of Technical Sciences, and M. M. Rassulov, Candidate of Technical Sciences, in their lectures dealt with problems of the statics and dynamics of an electric drive with a synchronous motor fed from an alternator with a comparable output. A. Ye. Trop, Doctor of Technical Sciences, V. I. Yakovlev, Candidate of Technical Sciences, and Engineer A. G. Yefanov spoke about the drives of mining hoists and excavators. A group of staff members of the LETI im. V. I. Ul'yanova (Lenina) (LETI imeni V. I. Ul'yanov (Lenin)) under the supervision of A. V. Basharin, Doctor of Technical Sciences, held a lecture on an automatic control system

Card 7/10

Third All-Union Joint Conference on the Automation of Production Processes in the Machine-building Industry and on Automated Electric Drives in Industries SOV/105-59-8-25/28

of an inclined and a vertical ship-lifting device by means of a drive with several electric motors. In the section for electric machines and means of automation the following lectures were held: Engineer B. I. Kuznetsov et al. spoke about the typical features of the new series of induction motors with an output of up to 100 kw. Ya. S. Gurin, Candidate of Technical Sciences, Engineer O. P. Sidorov, et al. spoke about the new series of direct-current machines. Engineer N. V. Kulikov spoke about the work in the "Elektrosila" Plant concerning large direct-current machines. F. A. Goryainov, Candidate of Technical Sciences, E. F. Tokarev, Candidate of Technical Sciences, I. P. Kopylov, Candidate of Technical Sciences, and Engineer V. I. Radin spoke about the design of rotary amplifiers. O. V. Benedikt, Academician of the Hungarian People's Republic, held a lecture on "The Autodyne and Its Application in Driving Working Machines". O. E. Bron, Doctor of Technical Sciences, spoke about problems connected with the increase of the interrupting capacity of direct-current and alternating-current disconnecting means. O. D. Yelpat'yevskaya, Candidate of Technical Sciences, T. A. Glazenko, Candidate

Card 8/10

Third All-Union Joint Conference on the Automation of Production Processes in the Machine-building Industry and on Automated Electric Drives in Industries SOV/105-59-8-25/28

of Technical Sciences, I. B. Negnevitskiy, Candidate of Technical Sciences, Engineer I. A. Vevyurko, et al, reported on the calculation of magnetic amplifiers and clutches with electro-magnetic fillers, on the application of Hall-EMF transducers in the investigation of transients, and on other things. F. V. Mayorov, Doctor of Technical Sciences, V. G. Zusman, Candidate of Technical Sciences, Engineer A. V. Zinchenko, et al, spoke about the control of metal-cutting machine tools by means of digital control device. A. A. Sirotin, Candidate of Technical Sciences, reported on the system of a preset control of a vertical milling machine developed in the MEI. Engineer B. A. Ivobotenko and Engineer L. A. Sadovskiy reported on new power-step-by-step motors with high-speed action and small control power consumption. A. A. Sirotin, Candidate of Technical Sciences, and Engineer V. A. Yeliseyev reported on the development of a new electric drive system for grinding machines. At the final meeting, lectures were held by A. I. Kostousov, President of the State Committee for Automation and Machine Construction, the Soviet Minister;

Card 9/10

Third All-Union Joint Conference on the Automation of Production Processes in the Machine-building Industry and on Automated Electric Drives in Industries SOV/105-59-8-25/28

Yu. Ye. Maksarev, President of the GNTK USSR, and A. Ye. Vyatkin, President of the Komitet standartov, mer i izmeritel'nykh priborov (Committee for Standards, Measures, and Measuring Instruments).

Card 10/10

CHILIKIN, M.G.

PHASE I BOOK EXPLOITATION

SOV/4553

Vsesoyuznoye ob"yedinennoye soveshchaniye po avtomatizatsii proizvodstvennykh protsessov v mashinostroyenii i avtomatizirovannomu elektroprivodu v promyshlennosti. 3d, Moscow, 1959

Elektroprivod i avtomatizatsiya promyshlennykh ustanovok; trudy soveshchaniya (Electric Drive and Automation in Industrial Systems; Transactions of the Conference) Moscow, Gosenergoizdat, 1960. 470 p. 11,000 copies printed.

General Eds.: I.I. Petrov, A.A. Sirotin, and M.G. Chilikin; Eds.: I.I. Sud, and E.F. Silayev; Tech. Eds.: K.P. Voronin, and G.Ye. Larionov.

PURPOSE: The collection of reports is intended for the scientific and technical personnel of scientific research institutes, plants and schools of higher education.

COVERAGE: The book is a collection of reports submitted by scientific workers at plants, scientific institutes and schools of higher education at the third Joint All-Union Conference on the Automation of Industrial Processes in Machine Building and Automated Electric Drives in Industry held in Moscow on May 12-16, 1959. The Conference was called by the Academy of Sciences USSR, the Gosplan SSSR (State Planning Commission USSR), the GNTK SSSR, the Gosudarstvennyy

~~Card 1/25~~

Electric Drive (Cont.)

SOV/4553

Komitat po avtomatizatsii i mashinostroyeniyu (State Committee on Automation and Machine Building) and the Natsional'nyy Komitet SSSR po avtomaticheskomu upravleniyu (USSR National Committee on Automatic Controls) and prepared by the Nauchno-tekhnicheskiy komitet po avtomatizirovannomu elektroprivodu (Scientific and Technical Committee on Automated Electric Drives), the MEI (Moscow Institute of Energetics), the VNIIEM, the IAT (Institute of Automation and Telemechanics) of the Academy of Sciences USSR, and the Komissiya po tekhnologii mashinostroyeniya Instituta mashinovedeniya AN SSSR (Commission on the Technology of Machine Building of the Institute of Science of Machines of the Academy of Sciences USSR). It was the purpose of the Editorial Board to arrange the reports in a way which would ensure a relatively systematic presentation of theoretical and practical problems relating to electric drives and automatic controls of industrial mechanisms used in various branches of industry. Basic problems of automated electric drive and their solution are outlined. The book also contains articles on electric machinery and means of automation. Considerable attention is paid to non-contact automatic control systems, including systems with semiconductor devices and magnetic amplifiers, and to computers intended both for the analysis and the synthesis of linear and nonlinear automatic regulation and control systems. Reports already published in journals or official publications have been considerably abbreviated; those which have appeared in volume V of NII EP transactions or in the journal "Elektrichestvo" are marked with an asterisk. No personalities are mentioned. References accompany some of the papers.

~~Card 2/25~~

Electric Drive (Cont.)

SOV/4553

TABLE OF CONTENTS:

Foreword

3

PART I. GENERAL PROBLEMS CONCERNING THE THEORY AND
PRACTICE OF ELECTRIC DRIVE AND AUTOMATION OF CONTROL

Chilkin, M.G., and I.I. Petrov., Professors, Doctors of Technical Sciences.
Problems of Automated Electric Drives in the Current Seven Years (1959-1965)

9

Kagan, B.M., Doctor of Technical Sciences. Solution of Electromechanical
Problems by Automatic Digital Computers

16

Vartanov, Z.B., Engineer, and B.M. Kagan, Doctor of Technical Sciences.
Prospects of Using Control Computers in Complex Electric-Drive Automation
Systems

27

Freydson, I.R., Candidate of Technical Sciences. Use of Analog Electronic
Computers for Electric Drive Simulation

36

~~Card 3/25~~

CHILIKIN, M.G., doktor tekhn.nauk, prof.; BIRYUKOV, V.G., kand.tekhn.nauk
BARDYBAKHIN, I.P., inzh.; LAZAREV, S.S., inzh.

Review of the sections on electric machines and transformers,
electrical apparatus, electrification of industry, and electrifica-
tion of transportation and agriculture, of the "Referativnyi
Zhurnal: Elektrotehnika." Elektrichestvo no. 11:95-96 N '60.
(MIRA 13:12)

(Electric engineering--Periodicals)

0.0000

77821
SOV/103-21-2-1/14

AUTHORS: Chilikin, M. G., and Petrov, I. I.

TITLE: Scientific and Technical Problems of Automatic Electric Drive Within the Current Seven Years

PERIODICAL: Avtomatika i telemekhanika, 1960, Vol 21, Nr 2, pp 161-166 (USSR)

ABSTRACT: This article describes the problems of increased electrification and automation in Soviet industry during 1959-1965. Industrial electrification indicates the level of mechanization in industry, particularly if the machinery is electrically driven. In the past decade, the increase in industrial production was in the same direct ratio as its electrification. Electric drive is a complex facility, converting electrical energies into mechanical, to operate machinery by remote control. This indicates the direction in development of electric drive and expansion of its functions. The Soviet industry has developed electric drives of a high technical standard, yet many problems still remain to be solved. Among the

Card 1/2

Scientific and Technical Problems of
Automatic Electric Drive Within the
Current Seven Years

77821

SOV/103-21-2-1/14

first, is a problem of creating a regulated economical electric drive operating on alternating current. The result of adapting a regulated electric drive with a choke control, for the excavators of moderate productivity, was not successful. A need exists for electric drives with the asynchronous short circuit motors used for multiactuated and reversed industrial mechanisms. More research is needed on synchronous motors, operating on either direct or alternating current. Considerable success was met in developing electric drives with ionic (Abstracter's note: This word is actually used in the Russian text) converters (for controlled nonreversible drive). More magnetic amplifiers for electric drives are being adopted. There is a need for a wider adaptation of electronic computers, trained engineering cadres, specialized "electric drive" engineers, and for more technical literature on the subject. A modern electric drive is an integral part of the automation systems of various industrial processes, particularly in the regulation of individual mechanisms and aggregates. A more extensive use of modern remote control systems is suggested.

Card 2/2

CHILIKIN, M.G., doktor tekhn.nauk, prof.; SOKOLOV, M.M., kand.tekhn.-
nauk, dotsent

Present state and future development of automated electric
drives. Trudy MEI no.33:211-222 '60. (MIRA 15:3)
(Electric driving)

CHILIKIN, M.G.,deputant

Introduce more improvements in Moscow. Gor. khoz. Mosk. 34 no.10:
32-33 0 '60. (MIRA 13:10)

1. Chlen Postoyannoy komissii kommunal'nogo khozyaystva Moskovskogo
Soveta.

(Moscow--Municipal services)

CHILIKIN, Mikhail Grigor'yevich; GYLER, L.B., prof., retsenzent;
SANDLER, A.S., dotsent, red.; BORUNOV, N.I., tekhn.red.

[General course on electric driving] Obshchii kurs elektroprivoda.
Izd.3., dop. i perer. Moskva, Gos.energ.izd-vo, 1961. 471 p.
(MIRA 14:6)

(Electric driving)

PROKOPIYEV, M.

A

Higher Education In The USSR, By M. A. Prokovivev,
M. G. Chilikin and S. I. Tulpanov. Paris, UNESCO, 1961.
59 p. Charts, Tables. (Educational Studies And
Documents, No. 39)

TRAPEZNIKOV, V.A., akademik, glav. red.; AYZERMAN, M.A., doktor tekhn. nauk, red.; AGEYKIN, D.I., kand. tekhn. nauk, red.; ARTOBOLVSKIY, I.I., akademik, red.; BATRACHENKO, L.P., inzh., red.; VORONOV, A.A., doktor tekhn. nauk, red.; GAVRILOV, M.A., doktor tekhn. nauk, red.; DIKUSHIN, V.I., akademik, red.; KARIBSKIY, V.V., kand. tekhn. nauk, red.; KOGAN, B.Ya., kand. tekhn. nauk, red.; KRASIVSKIY, S.P., red.; KULEBAKIN, V.S., akademik, red.; LERNER, A.Ya., doktor tekhn. nauk, red.; LETOV, A.M., kand. tekhn. nauk, red.; MEYEROV, M.V., doktor tekhn. nauk, red.; PETROV, B.N., akademik, red.; PUGACHEV, V.S., doktor tekhn. nauk, red.; SOTSKOV, B.S., red.; STEFANI, Ye.M., kand. tekhn. nauk, red.; KHRAMOV, A.V., kand. tekhn. nauk, red.; TSYPKIN, Ya.Z., doktor tekhn. nauk, prof., red.; CHELYUSTKIN, A.O., kand. tekhn. nauk, red.; CHILIKIN, M.G., doktor tekhn. nauk, red.; NAUMOV, B.N., kand. tekhn. nauk, red.; KASHINA, P.S., tekhn. red.

[Transactions of the International Federation of Automatic Control, 1st International Congress, Moscow, 1960] Trudy I Mezhdunarodnogo kongressa Mezhdunarodnoi federatsii po avtomaticheskomu upravleniiu. Moskva, Izd-vo Akad. nauk SSSR. Vol.2. [Theory of discrete systems, optimal systems, and adaptive automatic control systems] Teoriia diskretnykh, optimal'nykh i samonastroyivaiushchikhsia sistem. 1961. 996 p. (MIRA 14:9)

1. International Federation of Automatic Control, 1st International Congress, Moscow, 1960. 2. Chlen-korrespondent AN SSSR (for Sotnikov) (Automatic control)

CHILIKIN, M.G., doktor tekhn.nauk prof.; SANDLER, A.S., kand.tekhn.nauk,
~~dotsent~~ SHAPIRO, L.Ya., inzh.

Two-motor machine-valve stage with semiconductor rectifiers.
Elektrichestvo no.8:50-56 Ag '61. (MIRA 14:10)

1. Moskovskiy energeticheskiy institut.
(Electric driving)

CHILIKIN, M.G., doktor tekhn. nauk, prof.

Development of automated electric drives in an experimental
electromechanical laboratory. Trudy MEI no.38:5-16 '62.
(MIRA 17:2)

CHILIKIN, M.G.

Use of technical means in teaching. Izv. vys. ucheb. zav.;
radiotekh. 6 no.4:357-364 Jl-Ag '63. (MIRA 16:11)

BROWMAN, Yakov Yemenuvich; KAGAN, Valeriy Gennadiyevich;
KOCHUBIYEVSKIY, Feliks Davydovich, CHILIKIN, M.G., prof., red.

[Electric drives with transistor control. Systems with
electromechanical converters (PMK - G - D)] Elektropri-
vody s poluprovodnikovym upravleniem. Sistemy s elektro-
mashinnyimi preobrazovateliami (PMK - G - D). Moskva,
Energia, 1964. 88 p. (Biblioteka po avtomatike, no.107)
(MIRA 17:9)

CHILIKIN, M.G., prof., red.; KAPTSOV, L.N., red.

[Regulated semiconductor rectifiers (p-n-p-n devices)]
Poluprovodnikovye upravliaemye ventili-tiristory; sbornik statei. Moskva, 1964. 64 p. (Biblioteka po avtomatike, no.109. Elektroprivody s poluprovodnikovym upravleniem)
(MIRA 17:10)

BROVMAN, Yakov Semenovich; KAGAN, Valeriy Gennadiyevich;
KOCHUBIYEVSKIY, Feliks Davydovich; NAVDJS, Veniamin
Abramovich; CHILIKIN, M.G., red.; LEBEDEV, A.M., red.

[Direct current systems with amplidyne amplifiers] Si-
stemy postoiannogo toka s elektromashinnymi usiliteliami.
Moskva, Energiia, 1964. 79 p. (Biblioteka po avtomatike,
no.119; elektroprivody s poluprovodnikovym upravleniem)
(MIRA 18:1)

IVANCHUK, Boris Nikolayevich; LIPMAN, Roydzhoy Aleksandrovich;
RUVINOV, Boris Yakovlevich; CHILIKIN, M.G., red.;

[D.C. amplifiers with p-n-p-n- structure] Tiristornye usiliteli postoiannogo toka. Moskva, Energiia, 1964. 94 p.
(Biblioteka po avtomatike, no.117. Elektroprivody s poluprovodnikovym upravleniem)
(MIRA 17:11)

RATMIROV, Valeriy Arkad'yevich; IVOBOTENKO, Boris Alekseyevich;
TSATSENKIN, Viktor Kirillovich; SADOVEKIY, Lev Aleksandrovich;
CHILIKIN, M.G., prof., red.; GERSHENZON, G.S., red.

[Systems with stepping motors] Sistemy s shagovymi dvigate-
liami. Moskva, Energiia, 1964. 134 p. (Biblioteka po avto-
matike, no.110. Elektroprivody s poluprovodnikovym upravle-
niem)
(MIRA 17:11)

CHILIKIN, Mikhail Grigor'yevich; SOKOLOV, Mikhail Mikhaylovich;
SHINYANSKIY, Aleksandr Viktorovich; MILOVZOROV, V.I.,
kand. tekhn. nauk, retsenzent; IL'INSKIY, N.F., kand.
tekhn. nauk, red.

[Asynchronous electric drive with saturable reactors]
Asinkhronnyi elektroprivod s drosseliami nasyshcheniya.
Moskva, Energiia, 1964. 239 p. (MIRA 17:12)

ALEKSEYEVA, G.Ye., kand. tekhn. nauk, dots.; MELESHKINA, L.P., dots., kand. tekhn. nauk; BALUYEV, V.K., inzh.; BAMDAS, A.M., prof., doktor tekhn. nauk; VENIKOV, V.A., prof., doktor tekhn. nauk; YEZHKOVA, V.V., kand. tekhn. nauk; ANISIMOVA, N.D., dots., kand. tekhn. nauk; GANTMAN, S.A., kand. khim. nauk; GLAZUNOV, A.A., dots., kand. tekhn. nauk; GOGUA, L.K., inzh.; GREBENNICHENKO, V.T., inzh.; GRUDINSKIY, P.G., prof.; GORFINKEL', Ya.M., inzh.; ZVEZDIN, A.L., inzh.; KAZANOVICH, G.Ya., inzh.; KNYAZEVSKIY, B.A., dots., kand. tekhn. nauk; KOSAREV, G.V., dots., kand. tekhn. nauk; MESSEMAN, S.M., kand. tekhn. nauk, dots.; KOKHAN, N.D., inzh.; KUVAYEVA, A.P., dots., kand. tekhn. nauk; SOKOLOV, M.M., dots., kand. tekhn. nauk; LASHKOV, F.P., dots., kand. tekhn. nauk; LAZIN, A.I., inzh.; YUDIN, F.I., inzh.; LIVSHITS, A.L., kand. tekhn. nauk; METEL'TSIN, P.G., inzh.; NEKRASOVA, N.M., dots., kand. tekhn. nauk; OL'SHANSKIY, N.A., dots., kand. tekhn. nauk; POLEVAYA, I.V., dots., kand. tekhn. nauk; POLEVOY, V.A., dots., kand. tekhn. nauk [deceased]; RAZEVIK, D.V., prof., doktor tekhn. nauk; RAKOVICH, I.I., inzh.; SOLDATKINA, L.A., dots., kand. tekhn. nauk; TREMBACH, V.V., dots., kand. tekhn. nauk; FEDOROV, A.A., prof., kand. tekhn. nauk; FINGER, L.M., inzh.; CHILIKIN, M.G., prof., doktor tekhn. nauk, glav. red.; ANTIK, I.V., inzh., red. GOLOVAN, A.T., prof., red.; PETROV, G.N., prof., red.; FEDOSEYEV, A.M., prof., red.

(Continued on next card)

ALEKSEYEVA, G.Ye.— (continued). Card 2.

[Electrical engineering manual] Elektrotekhnicheskii
spravochnik. Pod obshchei red. A.T. Golovana i dr. Moskva,
Energia. Vol.2. 1964. 758 p. (MIRA 17:12)

1. ~~Moscow~~. Energeticheskii institut. 2. Moskovskiy energe-
ticheskii institut (for Golovan, Grudinskiy, Petrov,
Fedoseyev, Chilikin, Venikov). 3. Chlen-korrespondent AN
SSR (for Petrov).

L 2469-66 ENT(d)/EMP(t)/EMP(v)/T/EMP(k)/EMP(h)/EMP(l)

ACCESSION NR: AP3026356

UR/0105/64/000/009/0093/0093

AUTHOR: Yefremov, I. S.; Minov, D. K.; Petrov, I. I.; Rosenfel'd, V. Ye;
Svenchanskiy, A. D.; Sokolov, M. M.; Fufryanskiy, N. A.; Chilikin, M. G.

TITLE: Aleksandr Dmitriyevich Stepanov on his 60th birthday

SOURCE: Elektrichestvo, no. 9, 1964, 93

TOPIC TAGS: electric engineering personnel

ABSTRACT: A. D. Stepanov, Professor in the Department of "Electrical Transportation" of the Moscow Power Engineering Institute and prominent specialist in the field of diesel and gas turbine transportation, had his sixtieth birthday this year. His interest for the past 35 years has been in the field of automation of transportation equipment. Among the great number of printed works by Professor Stepanov, his books "Diesel-electric Drive for Transportation Equipment" and "Ways for Increasing the Efficiency of Diesels and Gas Turbine Locomotives" deserve special attention along with a number of books on diesels written by him in co-authorship with workers in industry and transport. He has just published a new book, "Automatic Power Control of Diesel and Gas-Turbine Locomotives."

Card 1/2

L 2969-66

ACCESSION NR: AP5026356

He began his engineering activity at the "Dynamo" factory in Kirov. A system which he developed is used in mass produced diesel locomotives. Other systems for the electric transmissions on diesel locomotives and gas turbine locomotives which were developed under his direction are being used in Soviet industry. He is the founder of a course "Diesel-electric Rolling Stock" at the Moscow Power Engineering Institute. Orig. art. has 1 figure.

ASSOCIATION: none

ENCL: 00

SUB CODE: KE

SUBMITTED: 00

OTHER: 000

JPRS

NR REF SOV: 000

BVK
Card 2/2

IL'ICHEV, Dmitriy Dmitriyevich; TATUR, Oleg Nikolayevich;
FLIDLIDER, Grigoriy Maksovich. Prinimal uchastiye EDEMSKIY,
V.M.; ANOSOV, Yu.O., red.; CHILIKIN, M.G., prof., red.
[Systems with electromagnetic clutches] Sistemy s elektro-
magnitnymi muftami. Moskva, Energiia, 1965. 96 p.
(MIRA 18:3)